*BY ORDER OF THE COMMANDER*
*AIR EDUCATION AND TRAINING*
*COMMAND*

*AF INSTRUCTION 21-116*

*AIR EDUCATION AND TRAINING COMMAND*

*Supplement 1*

*14 NOVEMBER 2003*

*Maintenance*

*MAINTENANCE MANAGEMENT OF*
*COMMUNICATIONS-ELECTRONICS*

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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**AFI 21-116, 10 December 2000, is supplemented as follows:**

**★SUMMARY OF REVISIONS**

This revision incorporates interim change (IC) 2003-1 which updates the organizational email address and fax number for SCML (paragraph 1.3.1.3.3); changes the timeframe for requesting staff assistance visits (SAV) prior to an operational readiness inspection (ORI) or contracted support activity inspection (CSAI) (paragraph 1.4); deletes the requirement for job control to query the work center on the need to recertify air traffic control and landing systems (ATCALS) after maintenance is complete; clarifies RED outage reporting procedures to HQ AETC/SCML (paragraph 4.11.2.4 [Added][AETC]); eliminates the requirement to perform technical inspections on ATCALS systems at 12-month intervals from paragraph 5.17.2.2.1; changes the interval requirement to perform technical inspections on ATCALS from 12 months to 18 months; changes the personnel evaluation process on ATCALS systems maintainers (paragraph 5.17.3.7.3.3); deletes the requirement to perform special personnel evaluations on each specific ATCALS facility/system for personnel designated as equipment certifiers; deletes the requirement to route unsatisfactory Maintenance Standardization and Evaluation Program (MSEP) reports on ATCALS facilities, functions, maintenance or certifying officials to the unit commander; deletes command specific requirements on trainer/certifier qualification requirements and the need for task certifiers to maintain training records or be task certified themselves; updates the systems supported by special maintenance teams (SMT) (Table A14.1 [Added][AETC]); and deletes the requirement to provide monthly maintenance analysis reports and chief of maintenance summaries to HQ AETC/SCML. A ★ indicates revision from the previous edition. See the last attachment of this publication (IC 2003-1) for the complete IC.

**Purpose Paragraph:**

★This supplement applies to all Air Education and Training Command (AETC) organizations or functions that manage or perform organizational- or intermediate-level maintenance on communications-electronics (C-E) systems, equipment, and circuits to include field operating agencies, AETC-gained Air Force Reserve Command (AFRC), and Air National Guard (ANG) units. It clarifies command responsibilities, maintenance management policies and procedures, lockout and tagout program requirements, equipment outage reporting procedures, maintenance support requirements, Maintenance Standardization and Evaluation Program (MSEP) requirements, personnel and equipment certification requirements, maintenance training requirements, special maintenance team (SMT) supported systems (Attachment 14) (Added)(AETC), and command assistance request procedures (Attachment 15) (Added)(AETC).

Submit recommendations for change, improvement, or waivers to this instruction on AETC Form 1236, **Request for Improving/Changing AETC Maintenance Regulations/Instructions.** Requests must be approved by the appropriate group commander (or squadron commander, if not assigned to a group) before forwarding to HQ AETC/SCML, 61 Main Circle, Ste 2, Randolph AFB TX 78150-4545. Maintain and dispose of records created as a result of prescribed processes in this publication in accordance with AFMAN 37-139, *Records Disposition Schedule.*

1.3.1. The Directorate of Communications and Information (HQ AETC/SC) is responsible for implementing Air Force policy, establishing policy where necessary, and providing guidance to AETC activities that maintain C-E equipment. The Systems Logistics Branch (HQ AETC/SCML) will act as the primary point of contact for C-E maintenance management policy and guidance.

★1.3.1.3.3. Obtain maintenance management programs and policy guidance and assistance by contacting HQ AETC/SCML by telephone (DSN 487-2119, commercial 210-652-2119), fax (DSN 487-4783, commercial 210-652-4783), or e-mail (aetcscmlall@randolph.af.mil).

★1.3.1.3.6. **DELETED**

★1.3.1.4.2. Review equipment status and analyze reports for deficiency trends according to paragraph 4.11.2.4 (Added)(AETC).

★1.3.1.5.4. **DELETED**

★1.4. The C-E maintenance functional area manager (FAM) will periodically visit AETC units with C-E maintenance activities to gain a better understanding of missions, manpower requirements, personnel utilization, and training needs, and to educate the 2E community on career field issues. Units may request a headquarters staff assistance visit (SAV) for C-E maintenance management issues through HQ AETC/SCML. SAVs will not be conducted within a 180-day period before an operational readiness inspection (ORI) or contracted support activity inspection (CSAI).

2.4.1.4. Seek authorization from HQ AETC/SCML for any repairs not authorized.

2.4.1.6. Maintenance by nontraditional technicians (that is, individuals in other than a 2EXXX AFSC) performing maintenance, as defined in Attachment 1, basic instruction, will comply with all maintenance requirements and be subject to evaluation under MSEP.

2.33.2. Route requests for waivers through the unit commander to HQ AETC/SCML.

**2.34. (Added)(AETC) Maintenance of Auxiliary Power Systems.** Manage auxiliary power and uninterruptible power supply systems (UPS) supporting C-E equipment in the same manner as other communications systems. When maintenance requirements are not within the capability of the communications unit or other wing organizations, establish a service contract to ensure both scheduled

and unscheduled maintenance requirements are met.

3.2.2.25. (Added)(AETC) Establish a lockout and tagout program. Develop procedures to ensure equipment is locked out or tagged out before qualified personnel perform any servicing or maintenance when the unexpected energizing, startup, or discharge of stored energy could cause injury. Instruct all personnel in the safety significance of lockout and tagout procedures. Find complete guidance for instituting an effective program in AFOSH STD 91-45, *Hazardous Energy Control and Mishap Prevention Signs and Tags,* and Occupational Safety and Health Administration (OSHA) Standard 1910, *Code of Federal Requirements for Labor,* Subpart J, Section 147, *Control of Hazardous Energy (Lockout/Tagout).*

4.6.18. Prepare and maintain a master preventive maintenance inspection (PMI) schedule for systems and commercial off-the-shelf (COTS) equipment whose technical, commercial, or users manual suggests or mandates preventative maintenance routines.

★4.11.2.3.1. **DELETED**

★4.11.2.4. (Added)(AETC) Notify HQ AETC/SCML via telephone or email at (aetcscmlall.randolph.af.mil), within 1 hour of outage start time, when ATCALS or weather systems are "red." ATCALS and weather equipment unusable for the assigned mission are defined as red. Table 4.1 (Added)(AETC) identifies the systems requiring outage reporting and specifies the joint electronics designation system (JETDS) or government designator for reportable systems. Additionally, any commissioned mobile or tactical system providing the same capability as the systems listed in Table 4.1 (Added)(AETC), on an interim basis, requires outage reporting. Report within 1 hour after outage occurs. Outages occurring after normal duty hours should be reported in the first duty hour of the reporting unit's next duty day. Units will provide the supply off-base requisition number for mission-capable (MICAP) parts related to the outage. Determine mission impact, and keep HQ AETC/SCML updated when new information becomes available or when equipment status changes. Notify HQ AETC/SCML within 1 hour of system status or supply status changes. Mission impact is considered "minimal" if there is little to no effect on the flying mission or "significant" if the flying mission is impacted (sorties or training lost). This reporting does not replace equipment status reporting under the equipment status reporting subsystem, Core Automated Maintenance System (CAMS), or operational reporting under AFMAN 10-206/AETC Sup 1, *Operational Reporting.*

5.2.2.2. In addition to paragraph 4.19, basic publication, see paragraph 4.8, basic publication.

5.8.2.7. Communication squadron materiel controllers authorized to operate a decentralized processing function will process, report, manage, and track mission capable (MICAP) requirements.

5.8.2.11.1. Forward consolidated inputs to HQ AETC/SCML. At a minimum, inputs will contain the following information: national stock number (NSN), noun, required level, type requirement (special level or supply point), and standard reporting designator (SRD).

5.13.4. Maintenance support reviews local work cards for technical accuracy and forwards validated work card sets to the chief of maintenance (COM) or chief of mission system flight (CMSF) for signature.

5.13.5. Local work cards should be in the same format as Air Force-published technical order equipment work cards. They may be published on AFTO Form 26D, **Inspection Work Document,** or equivalent electronic forms. At the discretion of the COM or CMSF, forward a copy of approved local work cards to HQ AETC/SCML for review and consideration for AETC-wide application and Air Force publication.

5.15. No functions are exempt from MSEP other than those specifically identified in paragraph 5.17.3.5,

basic publication. The COM or CMSF and chief of information systems flight (CISF) may also require MSEP managerial and personnel evaluations for non-2EXXX technicians in systems control, network control centers, power production, and other functions to further assess maintenance training effectiveness.

**Table 4.1. (Added)(AETC) Systems Requiring Outage Reporting.**

| ITEM | A<br><br><br><br>System | B<br><br><br><br>JETDS or Government Designation |
|---|---|---|
| 1 | Air Traffic Control Radar Beacon System (ATCRBS) | AN/TPX-42 |
| 2 | Airport Surveillance Radar (ASR) | AN/GPN-12, AN/GPN-20, and AN/GPN-30 |
| 3 | Combined VOR and TACAN (VORTAC) | AN/FRN-43 |
| 4 | Digital Bright Radar Indicator Tower Equipment (DBRITE) | FA-10221 |
| 5 | Instrument Landing System (ILS) | AN/GRN-29, AN/GRN-30, and AN/GRN-31 |
| 6 | Mobile Microwave Landing System (MMLS) | AN/TRN-45 |
| 7 | Precision Approach Radar (PAR) | AN/GPN-22 |
| 8 | RAPCON or Air Traffic Control Tower OJ-314 or Enhanced Terminal Voice Switch (ETVS) | AN/FSC-127 |
| 9 | RAPCON Programmable Indicator Data Processor (PIDP) or Standard Terminal Automation Replacement System (STARS) | AN/FSQ-204 |
| 10 | Storm Detection Radar (NEXRAD) | WSR-88D |
| 11 | Tactical Air Navigation (TACAN) | AN/FRN-45 |
| 12 | Very High Frequency Omni Range (VOR) | AN/FRN-44 |
| 13 | WSR-88D Principal User Processor (PUP) | N/A |

5.16.4.3. At the discretion of the COM or CMSF, submit copies of all locally developed maintenance quality control checklists (MQCC) with broad application to HQ AETC/SCML for review and consideration for AETC-wide application and Air Force publication.

5.16.5. (Added)(AETC) MS will maintain a master file of all applicable Air Force, AETC, and locally published MQCCs.

★5.17.2.2.1. Review facility records for ATCALS facility subject to flight inspection. Ensure facility records contain all required documentation and reference data, certification forms are properly completed, and the records are available at the equipment site.

5.17.2.3. Use AF Form 3900, **Quality Control Checksheet,** for all technical evaluations.

★5.17.3.7.3.3. Evaluate AFSC 2E0X1, 2E1X2, and 2E1X3 personnel who are task certified to maintain ATCALS at least once every 12 months. For individuals, regardless of their AFSC, who fall into this category a majority of the tasks selected must be ATCALS related. For example, personnel evaluations conducted on meteorological equipment or weather radar tasks will not fulfill Federal Aviation Administration (FAA) requirements for annual validation of technician proficiency. ATCALS tasks

selected for the personnel evaluation must also be of sufficient technical complexity to present a realistic measure of a technician's proficiency. Tasks involving simple meter readings alone will not satisfy this requirement. Personnel evaluations must measure the technician's capability to perform facility certification. The evaluation must also evaluate the technician's ability to determine when an ATCALS facility should be reported to the air traffic control supervisor for possible termination of service and under what conditions the ATCALS facility can be returned to service. Proper and timely evaluations allow Air Force technicians to certify that ground-based radar systems, navigational aids, and air traffic control (ATC) radio systems meet technical parameters.

5.17.3.7.3.4. (Added)(AETC) Personnel who maintain ATCALS equipment and do not possess AFSC 2E0X1, 2E1X2, or 2E1X3 will receive two separate evaluations—one dedicated to ATCALS equipment every 12 months and the second evaluation targeting non-ATCALS tasks. The ATCALS evaluation is in addition to the evaluations required of their primary AFSC (two independent evaluation requirements, thus two independent evaluation cycles). For example, an ATCALS task-certified 2E2X1 technician would receive an evaluation every 12 months solely on the ATCALS equipment certified on. The complexity of the tasks selected and scope of the evaluation must meet the requirements of paragraph 5.17.3.7.3.3, as supplemented. Additionally, the technician would also receive an independent, and separate, evaluation to ascertain training adequacy and technician proficiency specifically for 2E2X1 duties every 24 months.

★5.17.3.7.4.2.5. **DELETED**

★5.17.3.9.3. **DELETED**

5.17.4.3.7.2. System monitor integrity for ATCALS facilities exists when the system monitor correctly indicates the status of all monitored parameters. Optimum operation of system monitors exists when the monitor removes the system from service because an out-of-tolerance condition occurs, but not so soon as to make system performance unreliable. Review all ATCALS facility records for currency and accuracy. Compare current facility performance against existing facility reference data. Review records for compliance with AFI 13-203, *Air Traffic Control,* and AFMAN 11-225, *United States Standard Flight Inspection Manual,* documentation guidance.

5.17.6.1.3. Document followup actions taken to resolve discrepancies. Ensure management actions provide a permanent resolution that will prevent repeated and related discrepancies.

★5.17.6.1.6. **DELETED**

6.5.2.5. The CAMS new training sequence key and identifier for individual training plans may be used.

6.5.2.8.5. Certifying work center supervisors on as many maintenance tasks possible is encouraged to further enhance continuous task coverage for the work center.

★6.5.2.8.6. (Added)(AETC) Technicians performing equipment maintenance or task training on C-E equipment as part of their normal duties must be task certified. All technicians, including SNCOs, performing these tasks must maintain an AF Form 623, **Individual Training Record,** to verify they are task certified. Civilian personnel will document and maintain training records per paragraph 6.5.2.6.3, basic publication. Technicians performing equipment maintenance are also subject to evaluation under MSEP.

★6.5.2.8.7. (Added)(AETC) **DELETED**

6.5.2.8.8. (Added)(AETC) AETC Air Force Engineering and Technical Services (AFETS) and SMTs are authorized to perform task certification for a unit that may not have a qualified task certifier.

6.6.2. Validate new or proposed maintenance procedures received from outside sources (depot, vendor,

etc.) with HQ AETC/SCML prior to implementation.

6.13.2.4. Sharing an automated not reparable this station (NRTS) action history log with maintenance support is permissible.

9.3.6.2. Units should contact HQ AETC/SCML early in the COTS acquisition process to ensure logistic support availability, life-cycle sustainment, and to access potential impact of authorized manpower.

**9.4. (Added)(AETC) Forms Adopted.** AF Forms 623, 3900; AFTO Forms 26D, 295, 296, 514; and AETC Form 1236.

**Attachment 1, References.** The following references are added:

AFMAN 10-206, *Operational Reporting,* and its AETC supplement

AFI 21-110, *Engineering and Technical Services*

AFOSH STD 91-45, *Hazardous Energy Control and Mishap Prevention Signs and Tags*

OSHA Standard 1910, *Code of Federal Requirements for Labor,* Subpart J, Section 147, *Control of Hazardous Energy (Lockout/Tagout)*

**Attachment 1, Abbreviations and Acronyms.** The following abbreviations and acronyms are added:

**ASR**—airport surveillance radar

**ATCRBS**—air traffic control radar beacon system

**COTS**—commercial off-the-shelf

**CSAI**—contracted support activity inspection

**DBRITE**—digital bright radar indicator tower equipment

**ETVS**—enhanced terminal voice switch

**FAA**—Federal Aviation Administration

**FAM**—functional area manager

**ILS**—instrument landing system

**JETDS**—joint electronics designation system

**MMLS**—mobile microwave landing system

**ORI**—operational readiness inspection

**PAR**—precision approach radar

**PIDP**—programmable indicator data processor

**PUP**—principal user processor

**RVR**—runway visual range

**SMT**—special maintenance team

**SRD**—standard reporting designator

**STARS**—standard terminal automation replacement system

**TACAN**—tactical air navigation

**UPS**—uninterruptible power supply system

**VOR**—very high frequency omni range

A7.2.3.2. Track serial numbered or ID-numbered items over a long enough period to ensure every item is evaluated before the cycle starts over.

A9.3. Units may request routine or emergency SMT assistance for maintenance or training. The minimum requesting authority is the CMSF or COM. Submit requests via e-mail or official message to HQ AETC/SCML. Provide the owning unit commander, support group commander, and the appropriate depot repair center informational or courtesy copies of the request per T.O. 00-25-108, *Communications-Electronics (C-E) Depot Support,* paragraph 2-5. HQ AETC/SCML will validate the need and urgency of the request and coordinate with and task the appropriate SMT or AFETS resource. Emergency requests for assistance may be communicated directly to HQ AETC/SCML with a followup official record request on the next duty day. Attachment 15 (Added)(AETC) summarizes the process to request SMT support.

A9.6.2.1. Direct all requests for AFETS assistance to HQ AETC/SCML. The minimum requesting authority is the CMSF or COM. Submit requests via e-mail or official message with informational or courtesy copies provided to the owning unit commander and support group commander. HQ AETC/SCML will validate the need and urgency of the request and coordinate with and task the appropriate AFETS resource.

A11.3. An authorized certifier must be present during all scheduled and monitored flight inspections. If the facility is current on certification requirements and successfully passes the periodic flight inspection, the facility is considered usable. If adjustments are made during a periodic flight inspection that prevent the facility from being returned to the previously established facility references, complete data collection is required. Provide the applicable ATCALS certification forms to HQ AETC/SCML for analysis. HQ AETC/SCML will coordinate with SMT to determine if further adjustments are necessary, onsite SMT assistance is required, a new ATCALS evaluation is needed, or, in the case of an ATC radar facility, if the newly recorded data will be used as the facility reference.

A11.4.1. To return the system or facility to established facility references, certifiable parameters and readings must be within tolerances as specified by the applicable ATCALS certification forms (see paragraph A11.15, basic publication) and technical orders. This applies to all ATC radar, NAVAIDS, and ATC radio systems.

A11.4.2.1. When new ATCALS certification forms are completed, retain previous copies in the equipment historical files for trend analysis.

A11.4.2.2. If the facility cannot be returned to established facility references, perform complete data collection and forward the existing facility reference data, newly recorded data, and the most recent flight inspection report to HQ AETC/SCML. HQ AETC/SCML will coordinate with SMT to determine if further adjustments are required, if onsite SMT assistance is necessary, if a special flight inspection is required, or if a new ATCALS evaluation is needed.

A11.10. The term "ATC Radio" includes all radio systems used to control and vector aircraft or disseminate information considered necessary for safe flight operations.

A11.10.2.1. When new ATCALS certification forms are completed, retain previous copies in the equipment historical files for trend analysis.

A11.10.2.2. If the facility cannot be returned to established facility references, perform complete data collection and forward the existing facility reference data, newly recorded data, and any applicable flight inspection reports to HQ AETC/SCML. HQ AETC/SCML will coordinate with SMT to determine if further adjustments are required, onsite SMT assistance is necessary, a special flight inspection is

required, or a new ATCALS evaluation is needed.

A11.15. The following forms may also be used:

AFTO Form 295, **AN/GRN-30 Glideslope Reference Data**

AFTO Form 296, **AN/GRN-31 Localizer Reference Data**

AFTO Form 514, **ATC Radio Transceiver Performance Verification Worksheet**

DAVID C. SCHRECK, Colonel, USAF
Director of Communications and Information

*4 Attachments (Added)(AETC)*
14. Systems Supported by AETC Special Maintenance Teams (SMT)
15. Command Assistance Request Process
16. **DELETED**
★17. IC 2003-1

## ★Attachment 14 (Added)(AETC)

## SYSTEMS SUPPORTED BY AETC SPECIAL MAINTENANCE TEAMS (SMT)

**A14.1. Systems.** Table A14.1 lists the systems supported by SMTs.

**Table A14.1. Systems Supported by SMTs.**

| I T E M | A | B |
|---|---|---|
| | **SMT** | **Systems Supported** |
| 1 | Radar | Precision Approach Radar (PAR), Airport Surveillance Radar (ASR), ATC Radar Beacon System (ATCRBS), Programmable Indicator Data Processor (PIDP), Next Generation Weather Radar (NEXRAD), Digital Bright Radar Indicator Tower Equipment (DBRITE), video mapper systems, Digital Airport Surveillance Radar (DASR), and Standard Terminal Automation Replacement System (STARS). |
| 2 | METNAV | Instrument Landing System (ILS), Nondirectional Beacon (NDB), Tactical Air Navigation (TACAN), Very High Frequency Omni Range (VOR), temperature/ dew point system, cloud height measuring system, Runway Visual Range (RVR) system, airfield wind system, barometric pressure set, AN/FMQ-19 Meteorological Observation System, and associated monitor and control equipment. |
| 3 | Ground Radio | HF/VHF/UHF point-to-point, air-to-ground radio, Radar Approach Control (RAPCON) and ATC Tower Communications system, runway supervisory units/runway control structure, associated consoles, antennas, control equipment, and reproducer and recorders. |

**Attachment 15 (Added)(AETC)**

**COMMAND ASSISTANCE REQUEST PROCESS**

**A15.1. Process.** Figure A15.1 shows the process units use to request command assistance.

**Figure A15.1. Command Assistance Request Process.**
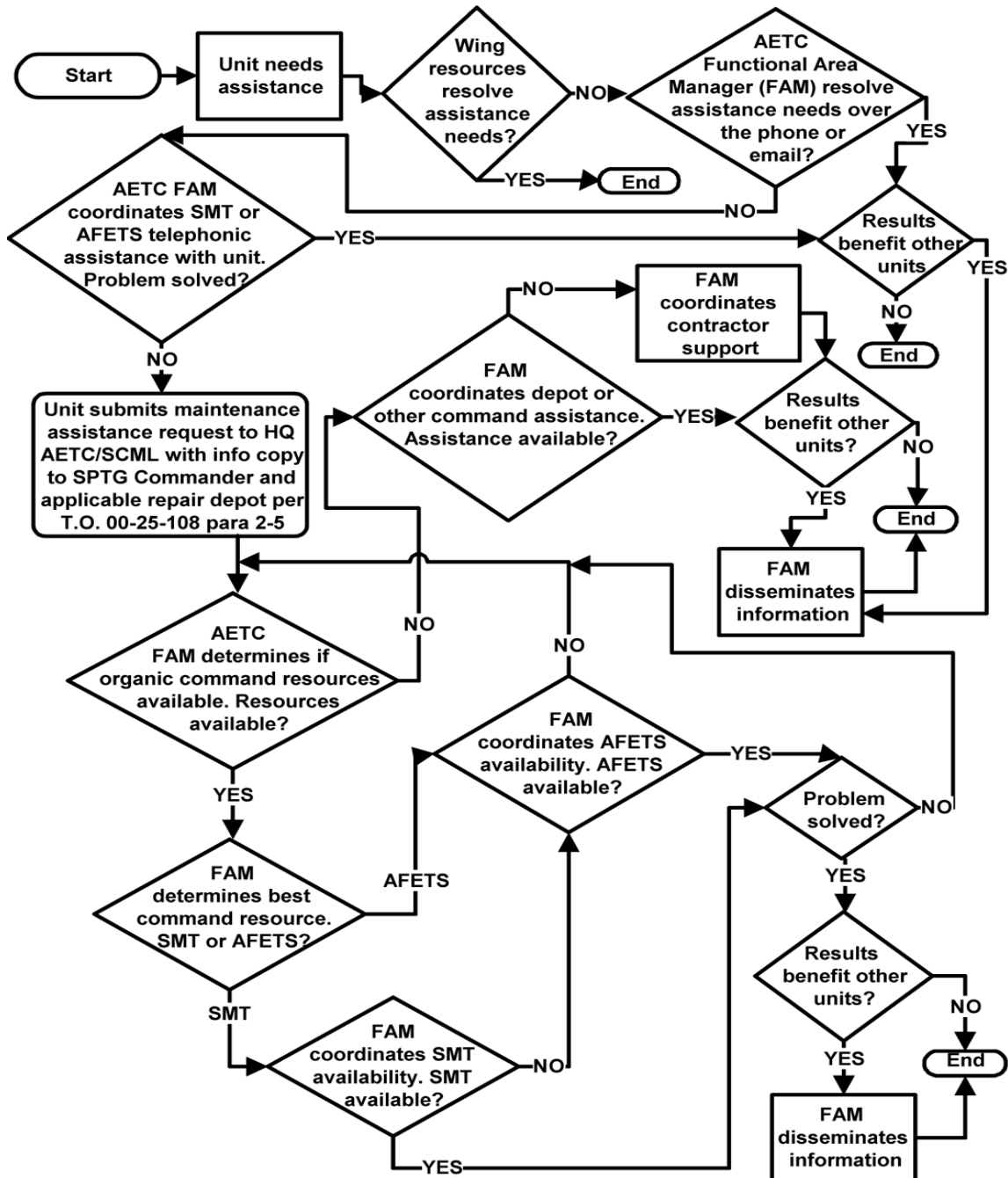
**Attachment 16 (Added)(AETC)**

**COMMUNICATIONS-ELECTRONICS (C-E) MAINTENANCE MANAGEMENT ANALYSIS PROGRAM**

**DELETED**

★**Attachment 17 (Added)(AETC)**

**IC 2003-1**

**INTERIM CHANGE (IC) 2003-1 TO AFI 21-116/AETC SUP 1,** *MAINTENANCE MANAGEMENT OF COMMUNICATIONS-ELECTRONICS*

**14 NOVEMBER 2003**

*SUMMARY OF REVISIONS*

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Certified by: HQ AETC/SCM (Col John N. Buckalew)

**Approving Authority:**

DAVID C. SCHRECK, Colonel, USAF
Director of Communications and Information

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This supplement applies to all Air Education and Training Command (AETC) organizations or functions that manage or perform organizational- or intermediate-level maintenance on communications-electronics (C-E) systems, equipment, and circuits to include field operating agencies, AETC-gained Air Force Reserve Command (AFRC), and Air National Guard (ANG) units. It clarifies command responsibilities, maintenance management policies and procedures, lockout and tagout program requirements, equipment outage reporting procedures, maintenance support requirements, Maintenance Standardization and Evaluation Program (MSEP) requirements, personnel and equipment certification requirements, maintenance training requirements, special maintenance team (SMT) supported systems (Attachment 14) (Added)(AETC), and command assistance request procedures (Attachment 15) (Added)(AETC).

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commercial 210-652-4783), or e-mail (aetcscmlall@randolph.af.mil).

1.3.1.3.6. **DELETED**

1.3.1.4.2. Review equipment status and analyze reports for deficiency trends according to paragraph 4.11.2.4 (Added)(AETC).

1.3.1.5.4. **DELETED**

1.4. The C-E maintenance functional area manager (FAM) will periodically visit AETC units with C-E maintenance activities to gain a better understanding of missions, manpower requirements, personnel utilization, and training needs, and to educate the 2E community on career field issues. Units may request a headquarters staff assistance visit (SAV) for C-E maintenance management issues through HQ AETC/SCML. SAVs will not be conducted within a 180-day period before an operational readiness inspection (ORI) or contracted support activity inspection (CSAI).

4.11.2.3.1. **DELETED**

4.11.2.4. (Added)(AETC) Notify HQ AETC/SCML via telephone or email at (aetcscmlall.randolph.af.mil), within 1 hour of outage start time, when ATCALS or weather systems are "red." ATCALS and weather equipment unusable for the assigned mission are defined as red. Table 4.1 (Added)(AETC) identifies the systems requiring outage reporting and specifies the joint electronics designation system (JETDS) or government designator for reportable systems. Additionally, any commissioned mobile or tactical system providing the same capability as the systems listed in Table 4.1 (Added)(AETC), on an interim basis, requires outage reporting. Report within 1 hour after outage occurs. Outages occurring after normal duty hours should be reported in the first duty hour of the reporting unit's next duty day. Units will provide the supply off-base requisition number for mission-capable (MICAP) parts related to the outage. Determine mission impact, and keep HQ AETC/SCML updated when new information becomes available or when equipment status changes. Notify HQ AETC/SCML within 1 hour of system status or supply status changes. Mission impact is considered "minimal" if there is little to no effect on the flying mission or "significant" if the flying mission is impacted (sorties or training lost). This reporting does not replace equipment status reporting under the equipment status reporting subsystem, Core Automated Maintenance System (CAMS), or operational reporting under AFMAN 10-206/AETC Sup 1, *Operational Reporting.*

5.17.2.2.1. Review facility records for ATCALS facility subject to flight inspection. Ensure facility records contain all required documentation and reference data, certification forms are properly completed, and the records are available at the equipment site.

5.17.3.7.3.3. Evaluate AFSC 2E0X1, 2E1X2, and 2E1X3 personnel who are task certified to maintain ATCALS at least once every 12 months. For individuals, regardless of their AFSC, who fall into this category a majority of the tasks selected must be ATCALS related. For example, personnel evaluations conducted on meteorological equipment or weather radar tasks will not fulfill Federal Aviation Administration (FAA) requirements for annual validation of technician proficiency. ATCALS tasks selected for the personnel evaluation must also be of sufficient technical complexity to present a realistic measure of a technician's proficiency. Tasks involving simple meter readings alone will not satisfy this requirement. Personnel evaluations must measure the technician's capability to perform facility certification. The evaluation must also evaluate the technician's ability to determine when an ATCALS facility should be reported to the air traffic control supervisor for possible termination of service and under what conditions the ATCALS facility can be returned to service. Proper and timely evaluations allow Air Force technicians to certify that ground-based radar systems, navigational aids, and air traffic control (ATC) radio systems meet technical parameters.

5.17.3.7.4.2.5. **DELETED**

5.17.3.9.3. **DELETED**

5.17.6.1.6. **DELETED**

6.5.2.8.6. (Added)(AETC) Technicians performing equipment maintenance or task training on C-E equipment as part of their normal duties must be task certified. All technicians, including SNCOs, performing these tasks must maintain an AF Form 623, **Individual Training Record,** to verify they are task certified. Civilian personnel will document and maintain training records per paragraph 6.5.2.6.3, basic publication. Technicians performing equipment maintenance are also subject to evaluation under MSEP.

6.5.2.8.7. (Added)(AETC) **DELETED**

A11.10. The term "ATC Radio" includes all radio systems used to control and vector aircraft or disseminate information considered necessary for safe flight operations and includes Runway Supervisory Units (RSU).

**Attachment 14 (Added)(AETC)**

**SYSTEMS SUPPORTED BY AETC SPECIAL MAINTENANCE TEAMS (SMT)**

A14.1. (Added)(AETC) **Systems.** Table A14.1 (Added)(AETC) lists the systems supported by SMTs.

**Table A14.1. (Added)(AETC) Systems Supported by SMTs.**

| ITEM | A | B |
|---|---|---|
| | **SMT** | **Systems Supported** |
| 1 | Radar | Precision Approach Radar (PAR), Airport Surveillance Radar (ASR), ATC Radar Beacon System (ATCRBS), Programmable Indicator Data Processor (PIDP), Next Generation Weather Radar (NEXRAD), Digital Bright Radar Indicator Tower Equipment (DBRITE), video mapper systems, Digital Airport Surveillance Radar (DASR), and Standard Terminal Automation Replacement System (STARS). |
| 2 | METNAV | Instrument Landing System (ILS), Nondirectional Beacon (NDB), Tactical Air Navigation (TACAN), Very High Frequency Omni Range (VOR), temperature/ dew point system, cloud height measuring system, Runway Visual Range (RVR) system, airfield wind system, barometric pressure set, AN/FMQ-19 Meteorological Observation System, and associated monitor and control equipment. |
| 3 | Ground Radio | HF/VHF/UHF point-to-point, air-to-ground radio, Radar Approach Control (RAPCON) and ATC Tower Communications system, runway supervisory units/runway control structure, associated consoles, antennas, control equipment, and reproducer and recorders. |

**Attachment 16. (Added)(AETC) DELETED**